#9

PCT09

RAW SEQUENCE LISTING DATE: 05/15/2002
PATENT APPLICATION: US/09/979,546A TIME: 07:30:02

Input Set : A:\46356686.app
Output Set: N:\CRF3\05152002\I979546A.raw

ENTERED

<110> APPLICANT: ITOH, YASUAKI
MOGI, SHINICHI
TANAKA, HIDEYUKI
OHKUBO, SHOICHI
OGI, KAZUHIRO

<120> TITLE OF INVENTION: NOVEL POLYPEPTIDE

<130> FILE REFERENCE: 46342/56686

<140> CURRENT APPLICATION NUMBER: 09/979,546A
<141> CURRENT FILING DATE: 2001-11-20

<150> PRIOR APPLICATION NUMBER: PCT/JP00/03221
<151> PRIOR FILING DATE: 2000-05-19

<150> PRIOR APPLICATION NUMBER: JP 11-140229
<151> PRIOR FILING DATE: 1999-05-20

<160> NUMBER OF SEQ ID NOS: 71

<170> SOFTWARE: PatentIn Ver. 2.1

<210> SEQ ID NO: 1
<211> LENGTH: 125
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 1

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Met Ala Lys Tyr Leu Ala Gln Ile Ile Val Met Gly Val Gln Val Val
 1               5                  10                  15
Gly Arg Ala Phe Ala Arg Ala Leu Arg Gln Glu Phe Ala Ala Ser Arg
            20                  25                  30
Ala Ala Ala Asp Ala Arg Gly Arg Ala Gly His Arg Ser Ala Ala Ala
        35                  40                  45
Ser Asn Leu Ser Gly Leu Ser Leu Gln Glu Ala Gln Gln Ile Leu Asn
    50                  55                  60
Val Ser Lys Leu Ser Pro Glu Glu Val Gln Lys Asn Tyr Glu His Leu
65                  70                  75                  80
Phe Lys Val Asn Asp Lys Ser Val Gly Gly Ser Phe Tyr Leu Gln Ser
                85                  90                  95
Lys Val Val Arg Ala Lys Glu Arg Leu Asp Glu Glu Leu Lys Ile Gln
            100                 105                 110
Ala Gln Glu Asp Arg Glu Lys Gly Gln Met Pro His Thr
        115                 120                 125
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<210> SEQ ID NO: 2
<211> LENGTH: 121
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 2

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Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu
 1               5                  10                  15
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```
66 Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu
67              20                  25                  30
69 Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu
70          35                  40                  45
72 Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys
73      50                  55                  60
75 Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu
76  65                  70                  75                  80
78 Pro Lys Arg Lys Asn Thr Trp Asn Phe Leu Lys Cys Ala Tyr Met Val
79                  85                  90                  95
81 Met Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr Phe
82              100                 105                 110
84 Ser Ser Gln Val Leu Leu Pro Leu Leu
85          115                 120
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 223
90 <212> TYPE: PRT
91 <213> ORGANISM: Homo sapiens
93 <400> SEQUENCE: 3
94 Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr Leu Ser Cys Leu Gly
95   1               5                  10                  15
97 Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly Ser Thr Gly Glu Glu
98              20                  25                  30
100 Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys Thr Met Arg Pro Ser
101          35                  40                  45
103 Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu Arg Val Asp Cys Arg
104      50                  55                  60
106 Asn Thr Asp Gln Thr Tyr Trp Cys Glu Tyr Arg Gly Gln Pro Ser Met
107  65                  70                  75                  80
109 Cys Gln Ala Phe Ala Ala Asp Pro Lys Ser Tyr Trp Asn Gln Ala Leu
110                 85                  90                  95
112 Gln Glu Leu Arg Arg Leu His His Ala Cys Gln Gly Ala Pro Val Leu
113             100                 105                 110
115 Arg Pro Ser Val Cys Arg Glu Ala Gly Pro Gln Ala His Met Gln Gln
116         115                 120                 125
118 Val Thr Ser Ser Leu Lys Gly Ser Pro Glu Pro Asn Gln Gln Pro Glu
119     130                 135                 140
121 Ala Gly Thr Pro Ser Leu Ser Pro Lys Ala Thr Val Lys Leu Thr Gly
122 145                 150                 155                 160
124 Ala Thr Gln Leu Gly Lys Asp Ser Met Glu Glu Leu Gly Lys Ala Lys
125                 165                 170                 175
127 Pro Thr Thr Gly Pro Thr Ala Lys Pro Thr Gln Pro Gly Pro Arg Pro
128             180                 185                 190
130 Gly Gly Asn Glu Glu Ala Lys Lys Lys Ala Trp Glu His Cys Trp Lys
131         195                 200                 205
133 Pro Phe Gln Ala Leu Cys Ala Phe Leu Ile Ser Phe Phe Arg Gly
134     210                 215                 220
137 <210> SEQ ID NO: 4
138 <211> LENGTH: 248
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139 <212> TYPE: PRT
140 <213> ORGANISM: Homo sapiens
142 <400> SEQUENCE: 4
143 Met Gly Pro Val Arg Leu Gly Ile Leu Leu Phe Leu Phe Leu Ala Val
144   1               5                  10                  15
146 His Glu Ala Trp Ala Gly Met Leu Lys Glu Glu Asp Asp Asp Thr Glu
147              20                  25                  30
149 Arg Leu Pro Ser Lys Cys Glu Val Cys Lys Leu Leu Ser Thr Glu Leu
150          35                  40                  45
152 Gln Ala Glu Leu Ser Arg Thr Gly Arg Ser Arg Glu Val Leu Glu Leu
153      50                  55                  60
155 Gly Gln Val Leu Asp Thr Gly Lys Arg Lys Arg His Val Pro Tyr Ser
156  65                  70                  75                  80
158 Val Ser Glu Thr Arg Leu Glu Glu Ala Leu Glu Asn Leu Cys Glu Arg
159                  85                  90                  95
161 Ile Leu Asp Tyr Ser Val His Ala Glu Arg Lys Gly Ser Leu Arg Tyr
162             100                 105                 110
164 Ala Lys Gly Gln Ser Gln Thr Met Ala Thr Leu Lys Gly Leu Val Gln
165         115                 120                 125
167 Lys Gly Val Lys Val Asp Leu Gly Ile Pro Leu Glu Leu Trp Asp Glu
168     130                 135                 140
170 Pro Ser Val Glu Val Thr Tyr Leu Lys Lys Gln Cys Glu Thr Met Leu
171 145                 150                 155                 160
173 Glu Glu Phe Glu Asp Ile Val Gly Asp Trp Tyr Phe His His Gln Glu
174                 165                 170                 175
176 Gln Pro Leu Gln Asn Phe Leu Cys Glu Gly His Val Leu Pro Ala Ala
177             180                 185                 190
179 Glu Thr Ala Cys Leu Gln Glu Thr Trp Thr Gly Lys Glu Ile Thr Asp
180         195                 200                 205
182 Gly Glu Glu Lys Thr Glu Gly Glu Glu Glu Gln Glu Glu Glu Glu Glu
183     210                 215                 220
185 Glu Glu Glu Glu Glu Gly Gly Asp Lys Met Thr Lys Thr Gly Ser His
186 225                 230                 235                 240
188 Pro Lys Leu Asp Arg Glu Asp Leu
189                 245
192 <210> SEQ ID NO: 5
193 <211> LENGTH: 173
194 <212> TYPE: PRT
195 <213> ORGANISM: Homo sapiens
197 <400> SEQUENCE: 5
198 Met Phe Cys Pro Leu Lys Leu Ile Leu Leu Pro Val Leu Leu Asp Tyr
199   1               5                  10                  15
201 Ser Leu Gly Leu Asn Asp Leu Asn Val Ser Pro Pro Glu Leu Thr Val
202              20                  25                  30
204 His Val Gly Asp Ser Ala Leu Met Gly Cys Val Phe Gln Ser Thr Glu
205          35                  40                  45
207 Asp Lys Cys Ile Phe Lys Ile Asp Trp Thr Leu Ser Pro Gly Glu His
208      50                  55                  60
210 Ala Lys Asp Glu Tyr Val Leu Tyr Tyr Tyr Ser Asn Leu Ser Val Pro
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```
211  65                  70                  75                  80
213 Ile Gly Arg Phe Gln Asn Arg Val His Leu Met Gly Asp Ile Leu Cys
214                  85                  90                  95
216 Asn Asp Gly Ser Leu Leu Leu Gln Asp Val Gln Glu Ala Asp Gln Gly
217             100                 105                 110
219 Thr Tyr Ile Cys Glu Ile Arg Leu Lys Gly Glu Ser Gln Val Phe Lys
220         115                 120                 125
222 Lys Ala Val Val Leu His Val Leu Pro Glu Glu Pro Lys Glu Leu Met
223     130                 135                 140
225 Val His Val Gly Gly Leu Ile Gln Met Gly Cys Val Phe Gln Ser Thr
226 145                 150                 155                 160
228 Glu Val Lys His Val Thr Lys Val Glu Trp Ile Phe Ser
229                 165                 170
232 <210> SEQ ID NO: 6
233 <211> LENGTH: 261
234 <212> TYPE: PRT
235 <213> ORGANISM: Homo sapiens
237 <400> SEQUENCE: 6
238 Met Glu Leu Leu Gln Val Thr Ile Leu Phe Leu Leu Pro Ser Ile Cys
239   1               5                  10                  15
241 Ser Ser Asn Ser Thr Gly Val Leu Glu Ala Ala Asn Asn Ser Leu Val
242             20                  25                  30
244 Val Thr Thr Thr Lys Pro Ser Ile Thr Thr Pro Asn Thr Glu Ser Leu
245         35                  40                  45
247 Gln Lys Asn Val Val Thr Pro Thr Thr Gly Thr Thr Pro Lys Gly Thr
248      50                  55                  60
250 Ile Thr Asn Glu Leu Leu Lys Met Ser Leu Met Ser Thr Ala Thr Phe
251  65                  70                  75                  80
253 Leu Thr Ser Lys Asp Glu Gly Leu Lys Ala Thr Thr Thr Asp Val Arg
254                  85                  90                  95
256 Lys Asn Asp Ser Ile Ile Ser Asn Val Thr Val Thr Ser Val Thr Leu
257             100                 105                 110
259 Pro Asn Ala Val Ser Thr Leu Gln Ser Ser Lys Pro Lys Thr Glu Thr
260         115                 120                 125
262 Gln Ser Ser Ile Lys Thr Thr Glu Ile Pro Gly Ser Val Leu Gln Pro
263     130                 135                 140
265 Asp Ala Ser Pro Ser Lys Thr Gly Thr Leu Thr Ser Ile Pro Val Thr
266 145                 150                 155                 160
268 Ile Pro Glu Asn Thr Ser Gln Ser Gln Val Ile Gly Thr Glu Gly Gly
269                 165                 170                 175
271 Lys Asn Ala Ser Thr Ser Ala Thr Ser Arg Ser Tyr Ser Ser Ile Ile
272             180                 185                 190
274 Leu Pro Val Val Ile Ala Leu Ile Val Ile Thr Leu Ser Val Phe Val
275         195                 200                 205
277 Leu Val Gly Leu Tyr Arg Met Cys Trp Lys Ala Asp Pro Gly Thr Pro
278     210                 215                 220
280 Glu Asn Gly Asn Asp Gln Pro Gln Ser Asp Lys Glu Ser Val Lys Leu
281 225                 230                 235                 240
283 Leu Thr Val Lys Thr Ile Ser His Glu Ser Gly Glu His Ser Ala Gln
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                245                 250                 255
Gly Lys Thr Lys Asn
            260
<210> SEQ ID NO: 7
<211> LENGTH: 243
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 7
Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu Arg Gly Leu
 1               5                  10                  15
Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser Ala Ser Glu
            20                  25                  30
Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg Glu Val Val
        35                  40                  45
Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro Gly
    50                  55                  60
Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro Gly Ile
65                  70                  75                  80
Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg Glu
                85                  90                  95
Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser Trp Ser
            100                 105                 110
Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr Phe
        115                 120                 125
Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly Ser
    130                 135                 140
Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe Thr
145                 150                 155                 160
Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile Ile
                165                 170                 175
Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile His
            180                 185                 190
Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Leu
        195                 200                 205
Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys Gly
    210                 215                 220
Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile Glu Glu
225                 230                 235                 240
Leu Pro Lys
<210> SEQ ID NO: 8
<211> LENGTH: 149
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 8
Met Lys Leu Gln Cys Val Ser Leu Trp Leu Leu Gly Thr Ile Leu Ile
 1               5                  10                  15
Leu Cys Ser Val Asp Asn His Gly Leu Arg Arg Cys Leu Ile Ser Thr
            20                  25                  30
Asp Met His His Ile Glu Glu Ser Phe Gln Glu Ile Lys Arg Ala Ile
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VERIFICATION SUMMARY DATE: 05/15/2002
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